Appendix B Sampling Process Design and Monitoring Schedule (plan)

Sample Design Rationale FY 2021

The sample design is based on the legislative intent of CRP. Under the legislation, the Basin Planning Agencies have been tasked with providing data to characterize water quality conditions in support of the Texas Water Quality Integrated Report, and to identify significant long-term water quality trends. Based on Steering Committee input, achievable water quality objectives and priorities and the identification of water quality issues are used to develop work plans which are in accord with available resources. As part of the Steering Committee process, the Sulphur River Basin Authority coordinates closely with the TCEQ and other participants to ensure a comprehensive water monitoring strategy within the watershed.

Summary of Changes:

Segment	Name	Stations	Entity	Changes
0301	Sulphur River Below Wright Patman Lake	13783, 10212	FO	None
0302	Wright Patman Lake	16205, 15061, 16860, 10213, 14097, 14103	FO, TC	None
0302C	Anderson Creek	20765	TC	None
0302E	Rice Creek	15947	TC	None
0303	Sulphur/South Sulphur River	10222, 10218, 10216, 10215	FO	None
0303A	Big Creek Lake	16856	FO	Drop
0303B	White Oak Creek	10201, 10198, 10199	FO	None
0303D	Rock Creek	10200	FO	None
0303L	Kickapoo Creek	17342	TC	None
0303M	Smackover Creek	20101	TC	None
0303N	Horse Creek	20100	TC	None
0304	Days Creek	10226	TC	None
0304A	Swampoodle Creek	15342	TC	None
0304B	Cowhorn Creek	15254	TC	None
0304C	Wagner Creek	14475, 21176	TC	None
0304D	Nix Creek	10210	TC	None
0305	North Sulphur River	10231	FO	None
0306	Upper South Sulphur River	10238, 17513	NM	None
0307	Jim L. Chapman Lake (formerly Cooper Lake)	21810	NM	None
0307A	Middle Sulphur River	13632	NM	None

FO – Field Office (TCEQ)
TC – Texarkana College
NM – North Texas Municipal Water District

Station 16856 dropped due to personnel changes at TCEQ.

Monitoring Sites for FY 2021

Table B1.1 Sample Design and Schedule

Site Description	Station ID	Waterbody ID	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Metal Water	Comments
WRIGHT PATMAN LAKE 215 METERS WEST AND 370 METERS NORTH OF KNIGHTS BLUFF LANDING BOAT RAMP IN ATLANTA STATE PARK	16205	0302	SU	TC	RT	4				4		
WRIGHT PATMAN LAKE 450 METERS SOUTH AND 80 METERS WEST OF CORPS ROAD 12 BOAT RAMP IN NORTH SHORE PARK	15061	0302	SU	TC	RT	4				4		
WRIGHT PATMAN LAKE IN BIG CREEK ARM APPROX 2.4MI /3.9KM EAST OF FM991 BRIDGE	16860	0302	SU	TC	RT	4				4		
WRIGHT PATMAN LAKE NEAR DAM APPROX 2.1KM SW OF SPILLWAY AND 1.1KM NW OF RAW WATER INTAKE STRUCTURE	10213	0302	SU	TC	RT	4				4		
WRIGHT PATMAN LAKE USGS SITE AC 0.25 MILE WEST OF DAM AND 0.5 MILE NORTHWEST OF DAM GATED	14097	0302	SU	TC	RT	4				4		
WRIGHT PATMAN LAKE USGS SITE EC MID LAKE 0.8 MILES SOUTHWEST OF BERRY FARM PARK 1.3 MILES NORTH OF ATLANTA STATE PARK ROAD 42	14103	0302	SU	TC	RT	4				4		
ANDERSON CREEK AT SH 98 410 METERS EAST AND 1.24 KILOMETERS NORTH OF THE INTERSECTION OF FM 561 AND SH 98 SOUTH OF NEW BOSTON IN BOWIE COUNTY	20765	0302C	SU	TC	BS					2		With RT in 3rd and 4th quarters
ANDERSON CREEK AT SH 98 410 METERS EAST AND 1.24 KILOMETERS NORTH OF THE INTERSECTION OF FM 561 AND SH 98 SOUTH OF NEW BOSTON IN BOWIE COUNTY	20765	0302C	SU	TC	RT	4	4	4	4			
RICE CREEK AT FM 1840 WEST OF BOSTON	15947	0302E	SU	TC	BS					2		With RT in 3rd and 4th quarters
RICE CREEK AT FM 1840 WEST OF BOSTON	15947	0302E	SU	TC	RT	4	4	4	4			
KICKAPOO CREEK AT FM 412 SOUTH OF ANNONA	17342	0303L	SU	TC	BS					2		With RT in 3rd and 4th quarters
KICKAPOO CREEK AT FM 412 SOUTH OF ANNONA	17342	0303L	SU	TC	RT	4	4	4	4			
SMACKOVER CREEK AT TITUS CR 3445 NORTH OF IH 30	20101	0303M	SU	TC	BS					2		With RT in 3rd and 4th quarters
SMACKOVER CREEK AT TITUS CR 3445 NORTH OF IH 30	20101	0303M	SU	TC	RT	4	4	4	4			
HORSE CREEK AT TITUS CR 3445 NORTH OF IH 30	20100	0303N	SU	TC	BS					2		With RT in 3rd and 4th quarters
HORSE CREEK AT TITUS CR 3445 NORTH OF IH 30	20100	0303N	SU	TC	RT	4	4	4	4			
DAYS CREEK AT STATELINE ROAD SOUTH OF TEXARKANA	10226	0304	SU	TC	BS					2		With RT in 3rd and 4th quarters
DAYS CREEK AT STATELINE ROAD SOUTH OF TEXARKANA	10226	0304	SU	TC	RT	4	4	4	4			
SWAMPOODLE CREEK AT WEST BROAD ST IN TEXARKANA 0.7 KM UPSTREAM OF THE CONFLUENCE WITH DAYS CREEK	15342	0304A	SU	TC	RT	4	4	4	4			
COWHORN CREEK AT TUCKER ST IN TEXARKANA	15254	0304B	SU	TC	BS					2		With RT in 3rd and 4th quarters
COWHORN CREEK AT TUCKER ST IN TEXARKANA	15254	0304B	SU	TC	RT	4	4	4	4			

Site Description	Station ID	Waterbody ID	SE	CE	MT	Field	Conv	Bacteria	Flow	24 hr DO	Metal Water	Comments
WAGNER CREEK AKA WAGGONER CREEK AT US 82 BETWEEN NASH AND TEXARKANA CITY OF TEXARKANA PERMIT 10374-007	14475	0304C	SU	TC	BS					2		With RT in 3rd and 4th quarters
WAGNER CREEK AKA WAGGONER CREEK AT US 82 BETWEEN NASH AND TEXARKANA CITY OF TEXARKANA PERMIT 10374-007	14475	0304C	SU	TC	RT	4	4	4	4			
WAGNER CREEK AT US HWY 67 / W 7TH STREET IN TEXARKANA	21176	0304C	SU	TC	BS					2		With RT in 3rd and 4th quarters
WAGNER CREEK AT US HWY 67 / W 7TH STREET IN TEXARKANA	21176	0304C	SU	TC	RT	4	4	4	4			
NIX CREEK AT STATE LINE AVENUE	10210	0304D	SU	TC	RT	4	4	4	4			
SOUTH SULPHUR RIVER AT STATE HWY 11 SOUTHEAST OF COMMERCE	10238	0306	SU	NM	RT	12	12	12	12		12	
SOUTH SULPHUR RIVER AT THE DOWNSTREAM CROSSING OF FM 272 NORTHEAST OF CELESTE	17513	0306	SU	NM	RT	4						
COOPER LAKE MID LAKE APPROX 100 METERS NORTH OF NORTH TEXAS MUNICIPAL WATER SUPPLY DISTRICTS INTAKE STRUCTURE NORTH OF PEERLESS	15211	0307	SU	NM	RT	12	12	12			12	
JIM CHAPMAN LAKE / COOPER LAKE MAIN BODY APPROX 100 METERS NORTH AND 2.08 KILOMETERS WEST OF THE DAM GATE STRUCTURE	21714	0307	SU	NM	RT	12	12	12			12	
JIM CHAPMAN LAKE JOHNS CREEK ARM APPROX 880 METERS EAST AND 550 METERS SOUTH OF JOHNS CREEK BOAT RAMP AND 10.4 KM WEST OF GATE TOWER	21810	0307	SU	NM	RT	4						
MIDDLE SULPHUR RIVER AT SH 11 1.5 MI UPSTREAM FROM WILLOW CREEK 1.5 MI NORTH OF COMMERCE	13632	0307A	SU	NM	RT	12	12	12	12		12	

Appendix B: Task 3 Work Plan & Sampling Process Design and Monitoring Schedule (Plan)

Objectives: Water quality monitoring will focus on the characterization of a variety of locations and conditions. This will include a combination of the following:

- planning and coordinating basin-wide monitoring;
- routine, regularly scheduled monitoring to collect long-term information and support statewide assessment of water quality; and
- systematic, regularly scheduled short-term monitoring to screen water bodies for issues.

Task Description: The Performing Party will conduct water quality monitoring in the Sulphur River Basin. The Performing Party will coordinate all monitoring plans with TCEQ regional offices and other monitoring entities to avoid duplication of effort.

The Performing Party will complete the following subtasks:

Monitoring Description — The Performing Party will monitor a minimum of 15 sites each year. Sampling will occur at a minimum of 10 sites quarterly for routine field, conventional, and bacteria parameter groups. Diurnal studies will be conducted at a minimum of 15 sites. Additional details concerning the monitoring activities conducted by the Performing Party are outlined in the FY2020-2021 CRP QAPP.

All monitoring will be completed in accordance with the Performing Party QAPP, the TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods (RG-415) and the TCEQ Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data (RG-416).

Coordinated Monitoring Meeting — The Performing Party will hold an annual coordinated monitoring meeting as described in the FY2020-2021 CRP Guidance. Qualified monitoring organizations will be invited to attend the working meeting in which monitoring needs and purposes will be discussed segment by segment and station by station. Information from participants and stakeholders will be used to select stations and parameters that will enhance overall water quality monitoring coverage, eliminate duplication of effort, and address basin priorities. A summary of the changes to the monitoring schedule will be provided to the participants within two weeks of the meeting. Changes to the monitoring schedule will be entered into the statewide Coordinated Monitoring Schedule (http://cms.lcra.org) and communicated to meeting attendees. Changes to monitoring schedules that occur during the year will be entered into the Coordinated Monitoring Schedule and communicated to meeting attendees.

QPRs — Each QPR will include all types of monitoring and indicate the number of sampling events and the types of monitoring conducted in the quarter.

Deliverables and Dues Dates:

September 1, 2019 through August 31, 2020

A. Conduct water quality monitoring, summarize activities, and submit with Progress Report — December 15, 2019; March 15 and June 15, 2020
B. Coordinated Monitoring Meeting — between March 15 and April 30, 2020
C. Coordinated Monitoring Meeting Summary of Changes — within 2 weeks of the meeting
D. Email notification that Coordinated Monitoring Schedule updates are complete — May 31, 2020

September 1, 2020 through August 31, 2021

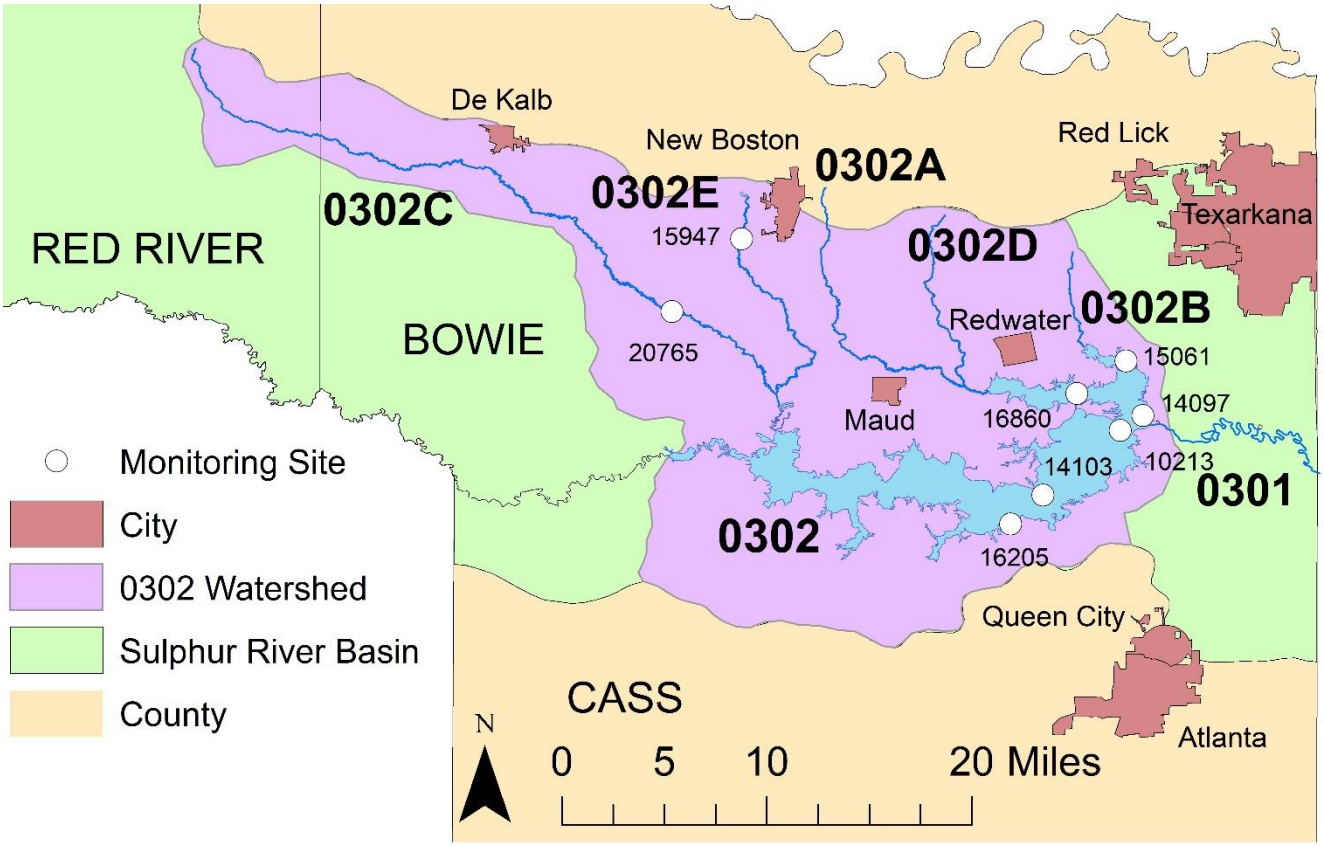
A. Conduct water quality monitoring, summarize activities, and submit with Progress Report — September 15 and December 15, 2020; March 15 and June 15 and August 31, 2021
B. Coordinated Monitoring Meeting — between March 15 and April 30, 2021
C. Coordinated Monitoring Meeting Summary of Changes — within 2 weeks of the meeting
D. Email notification that Coordinated Monitoring Schedule updates are complete — May 31, 2021

Appendix C: Station Location Maps

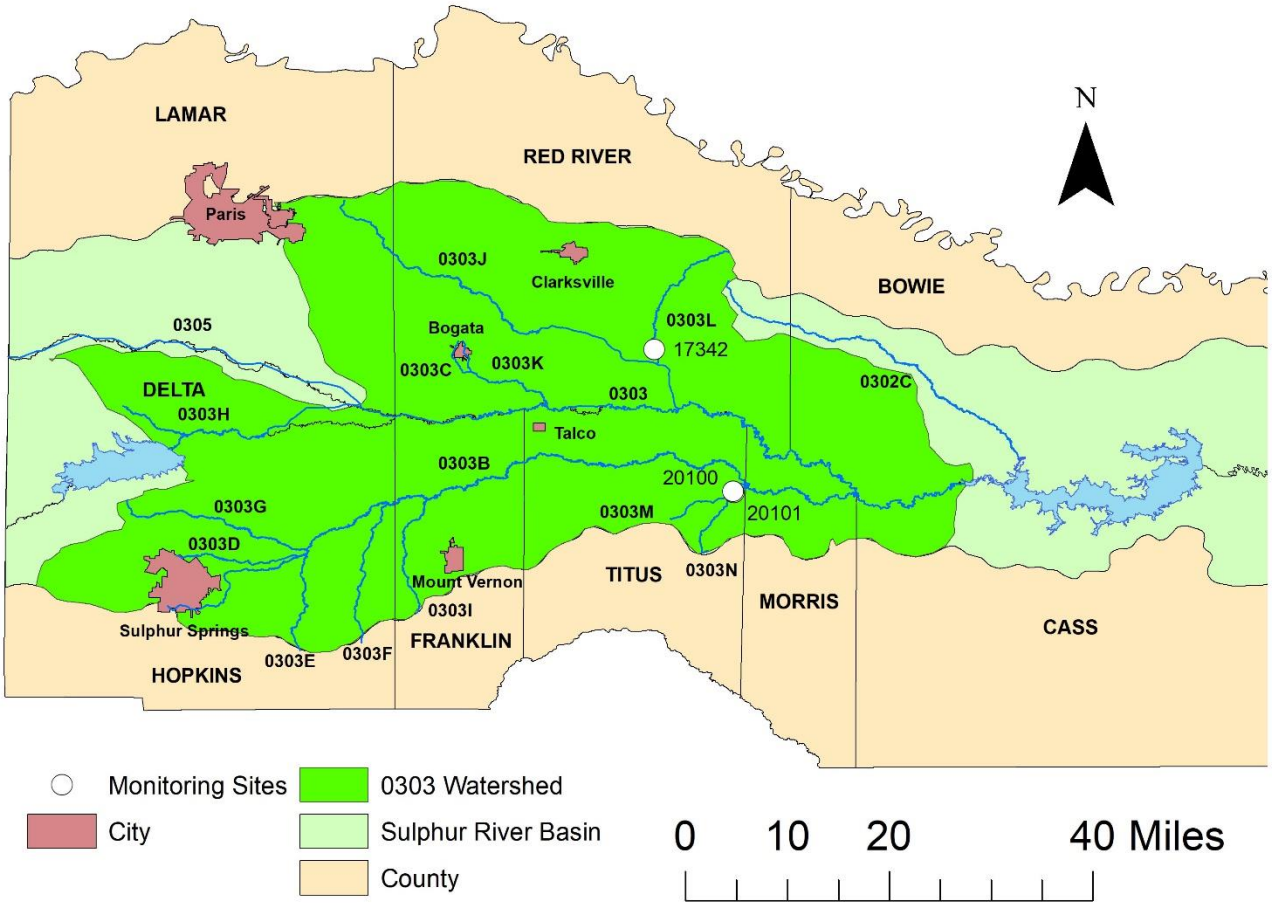
Station Location Maps

Maps of stations monitored by the SRBA are provided below. The maps were generated by SRBA. This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For more information concerning this map, contact Nancy Rose at (903) 223-7887.

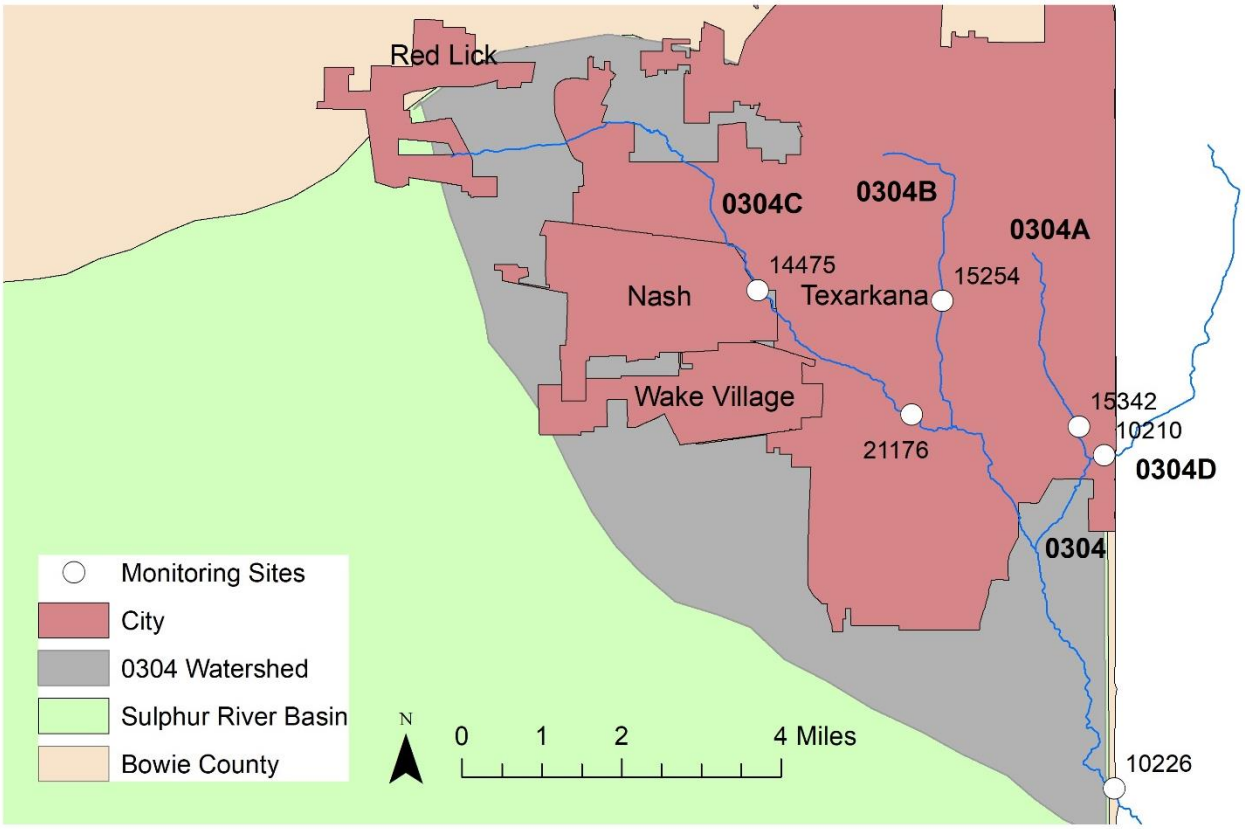
Segment 0302



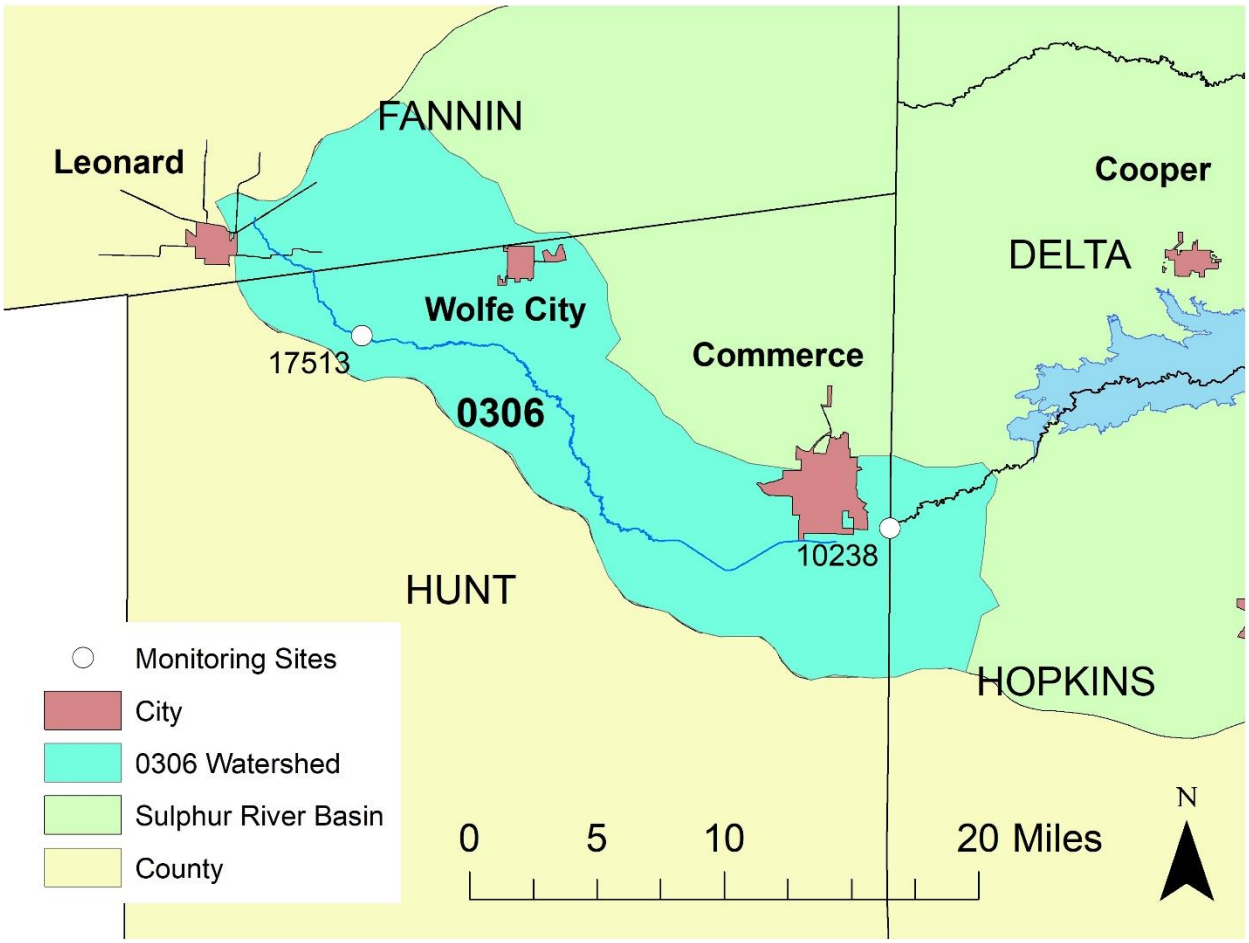
Segment 0303



Segment 0304



Segment 0306



Segment 0307